SPECIFICAT		PERICOM [®] APPROVAL				
NOMINAL FREQUENCY		20.000000 MHz				
		TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL				
SPEC. NO. (P/N)	FL	_2000041				
CUSTOMER P/N						
ISSUE DATE	Janua	January 18, 2018				
VERSION		D				
APPROVED	PREPARED	QA				
Brenda	kelly	Dong Jang				
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indust Zhongli Dist., Taoyuan City 32063, Ta TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com	aiwan (R.O.C.) *RoH *HF-ŀ	ree IS Compliant Halogen Free ACH Compliant				

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VERSION HISTORY



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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	20.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	15	pF	
Calibration Tolerance	FL	±15	ppm	at 25℃±3℃
Operating Temperature Range	TR	-20 to +70	C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±15	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Equivalent Series Resistance	ESR	60	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25℃		±5	ppm	Max, 1st year
Storage Temperature		-55 to +125	C	
Insulation Resistance		500	MΩ	Min

₩ This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



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Time

60~120 Sec 60~150 Sec

10 Sec

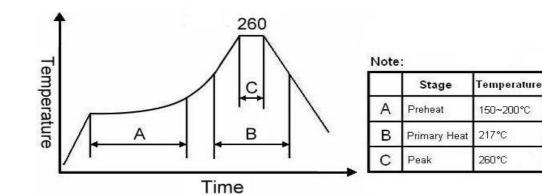
RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

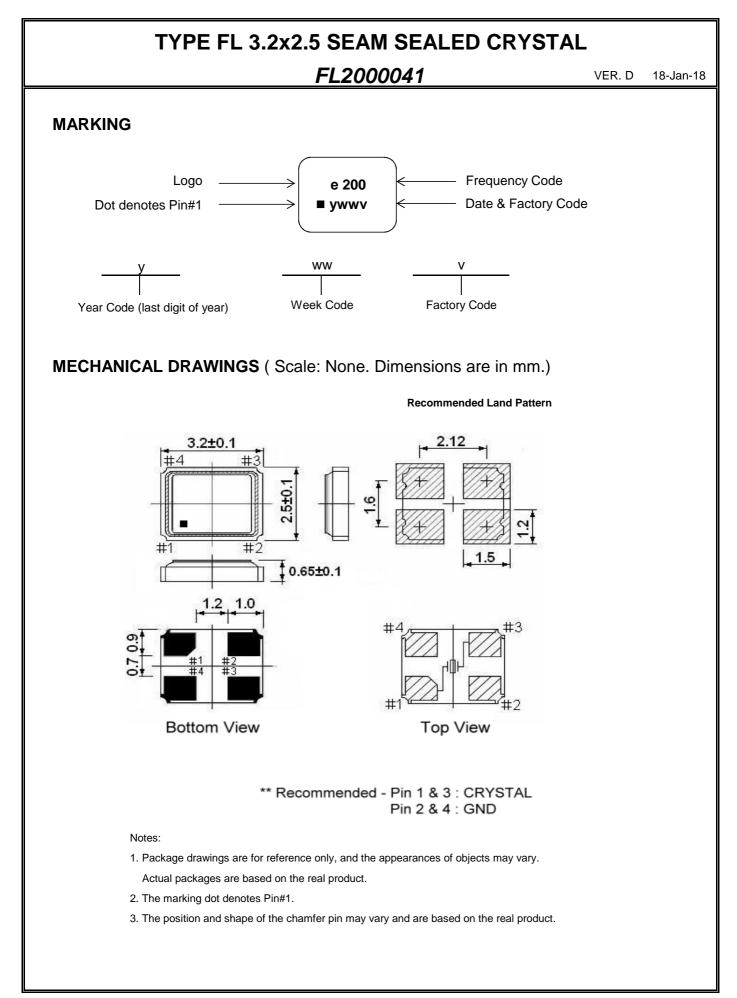
- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D





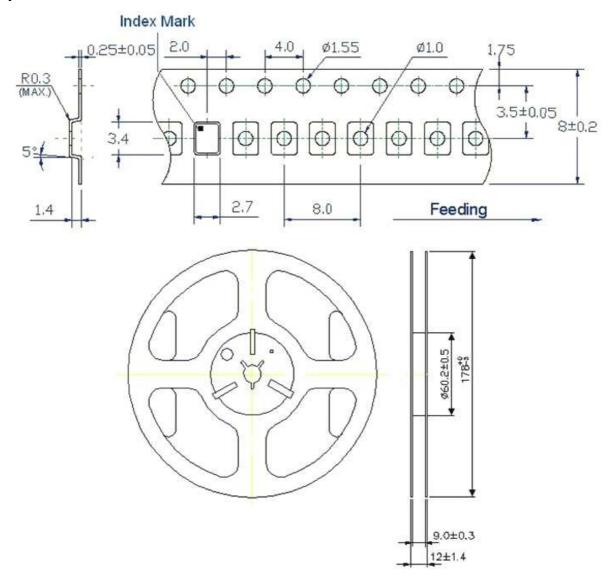




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Tape & Reel



- 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.



